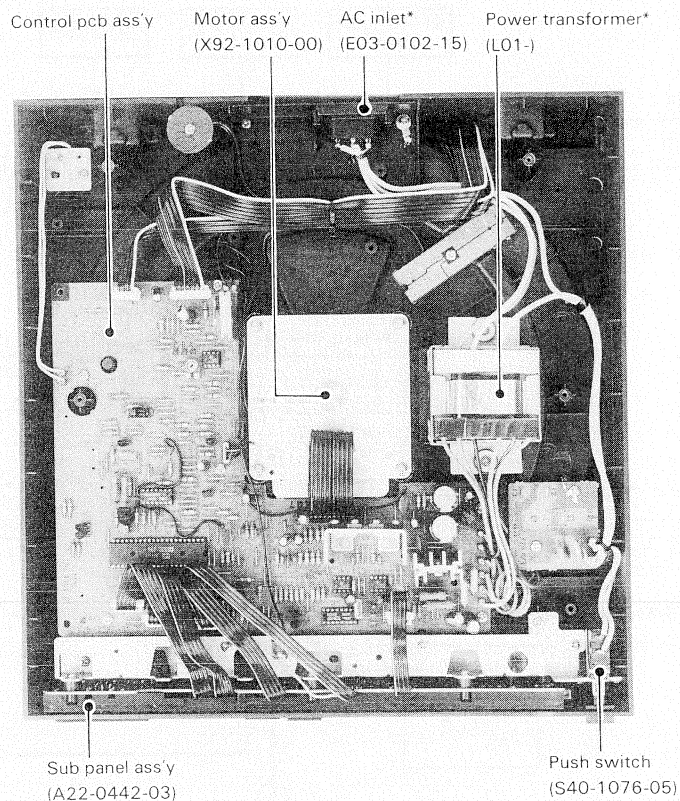
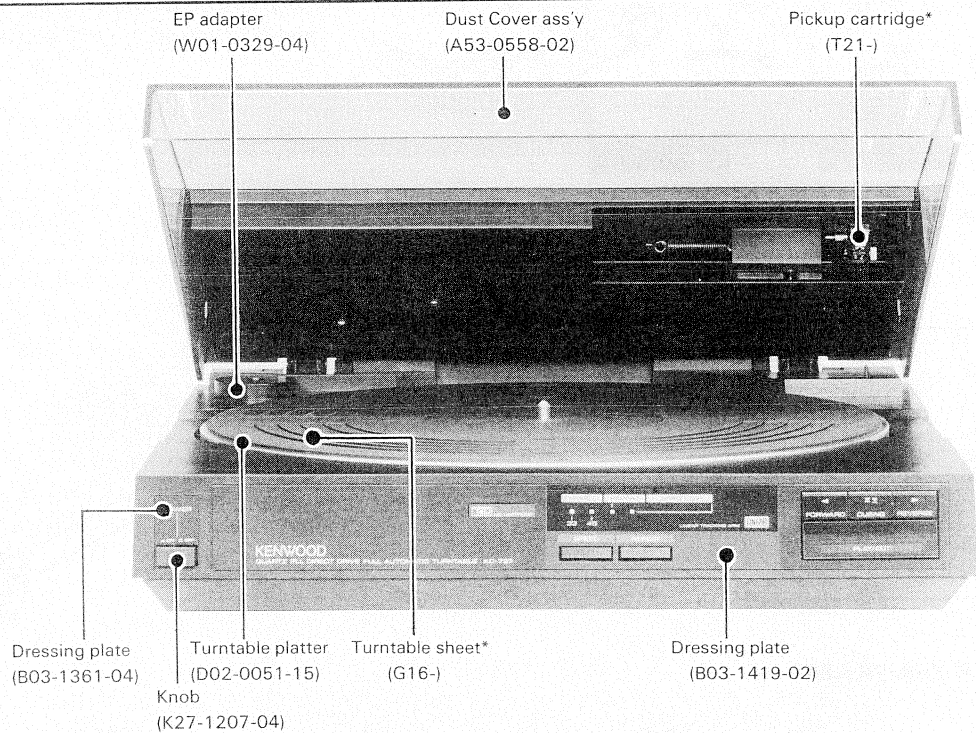


KENWOOD

KD-727

FULL AUTOMATIC TURNTABLE

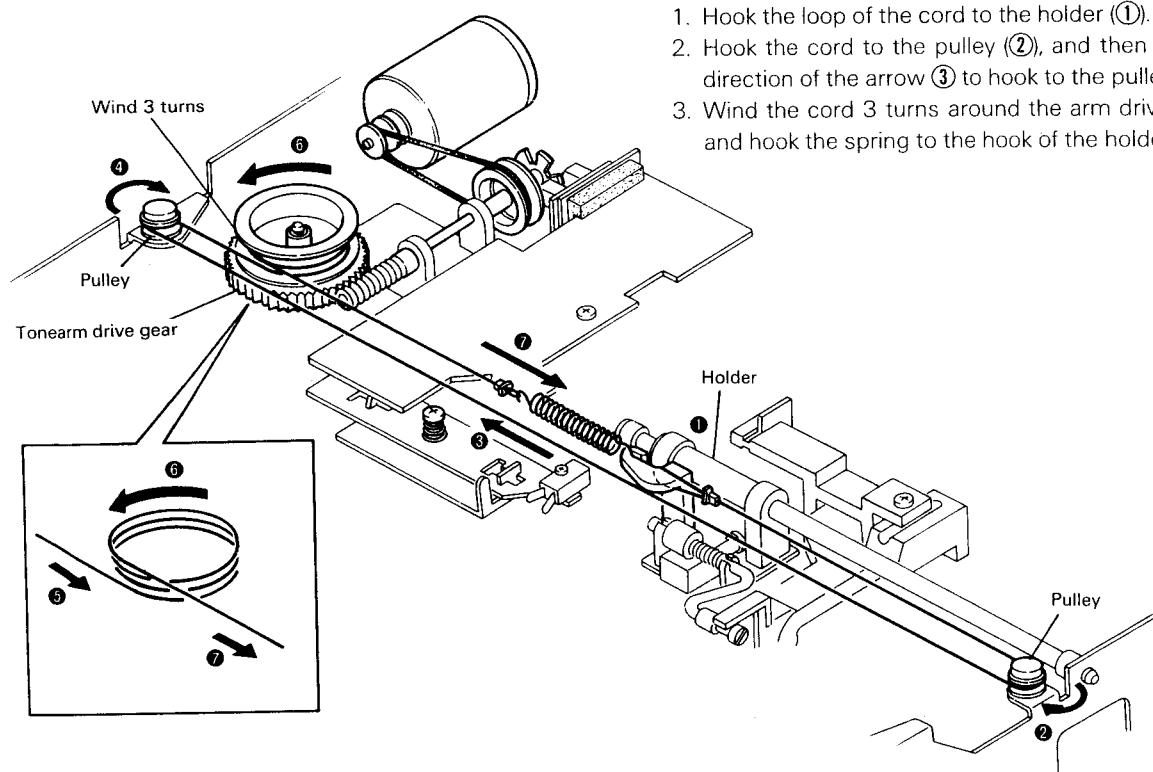


Caution: On exploded view, Parts with the exploded numbers larger than 700 are not supplied.

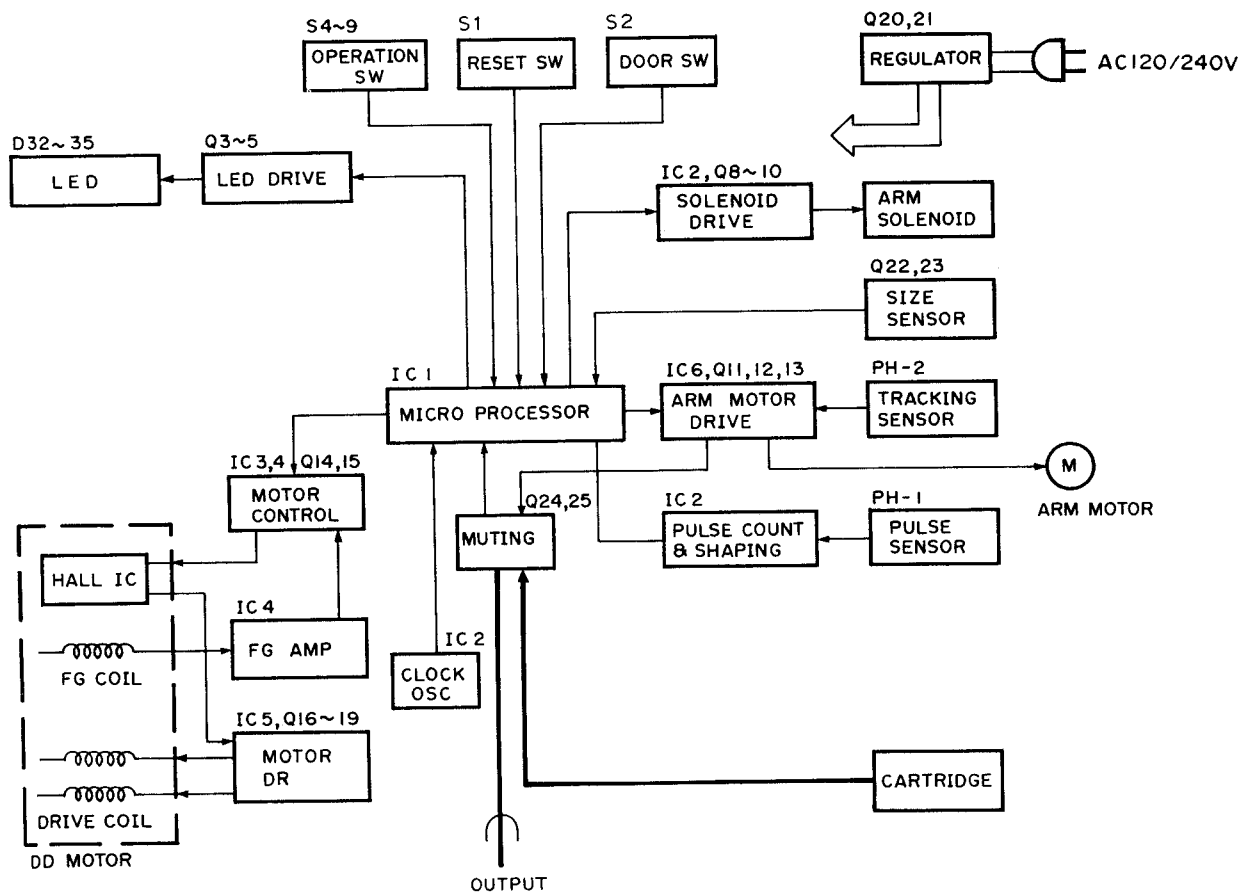
* Refer to Parts list on page 9.

CORD STRINGING/BLOCK DIAGRAM

CORD STRINGING



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

SEMICONDUCTOR'S FUNCTION TABLE

Semi-conductors	Application and function	Operation and conditions
Q3	Quartz lock indicator driver	Goes into conduction by quartz lock signals of 33-1/3 and 45 rpm from IC3. Lights LED (D35).
Q4	33 rpm display driver	Goes into conduction when power switch is ON. Pin 15 of microcomputer (IC1) goes low.
Q5	45 rpm display driver	When speed select switch (S4) is depressed after power switch is turned on (Q4 conducts), Q5 goes into conduction, lighting LED (D33). Pin 15 of microcomputer (IC1) goes high.
Q7	Microcomputer power ON/OFF reset	Becomes nonconductive for 10 to 20 msec when power switch is turned on and off, resetting microcomputer.
Q8	Solenoid kick drive transistor control for arm up/down	Goes into conduction the moment muting is released, shortcircuiting between base and emitter of kick driver (Q9) to turn off the kick.
Q9	Solenoid kick driver for arm up/down	Driver for solenoid kick. Kick is switched on while Q9 is in conduction.
Q10	Solenoid driver for arm up/down	Goes into conduction and turns on solenoid by means of arm down signal at pin 2 of microcomputer (IC1).
Q11	For arm malfunction prevention	So that arm does not move by the output from the tracking sensor during arm up, Q11 short-circuits tracking sensor output.
Q12	Arm feed motor driver	Goes into conduction when arm reverse operates.
Q13	Arm feed motor driver	Goes into conduction when arm forward operates.
Q14	Turntable ON/OFF control	Controls rotation of turntable by means of signal at pin 8 of microcomputer (IC1). Turntable rotates when Q14 is in conduction.
Q15	Turntable motor Hall device driver	Controls current passing through Hall device.
Q16, 17, 18, 19	DD motor drivers for turntable	Controls current passing through DD motor drive coil.
Q20, 21	Constant voltage power-supply	Controls constant voltage power supply by means of Darlington connection.
Q22	Record size detection	Size detection phototransistor (for 30 cm disc)
Q23	Record size detection	Size detection phototransistor (for 17 cm disc)
Q24	Muting control	Controls muting relay. Turns off muting when Q24 is in conduction.
Q25	Muting level detection	Detects tracking error voltage, then sends muting clear signal to microcomputer.
Q26	Microcomputer interface	Interfaces muting clear signal with microcomputer.
Q27	Microcomputer interface	Interfaces rest signal with microcomputer.
IC1	Microcomputer	
IC2	Pulse count waveform shaper	Pins 1 to 4. Schmitt trigger using two inverters.
	Muting signal	Pins 5 and 6.
	Microcomputer lock oscillator	Pins 8 to 11. Oscillating frequency is 400 kHz.
IC3	DD motor control	Quartz lock system
IC4	FG amp	Pins 1 to 3.
	Hall device control	Pins 5 to 7.
IC5	DD motor drive coil control	
IC6	Arm drive control	Pins 1 to 3.
	Tracking sensor amp	Pins 5 to 7.

ADJUSTMENT

Adjustment

Adjusting tonearm tracking bias

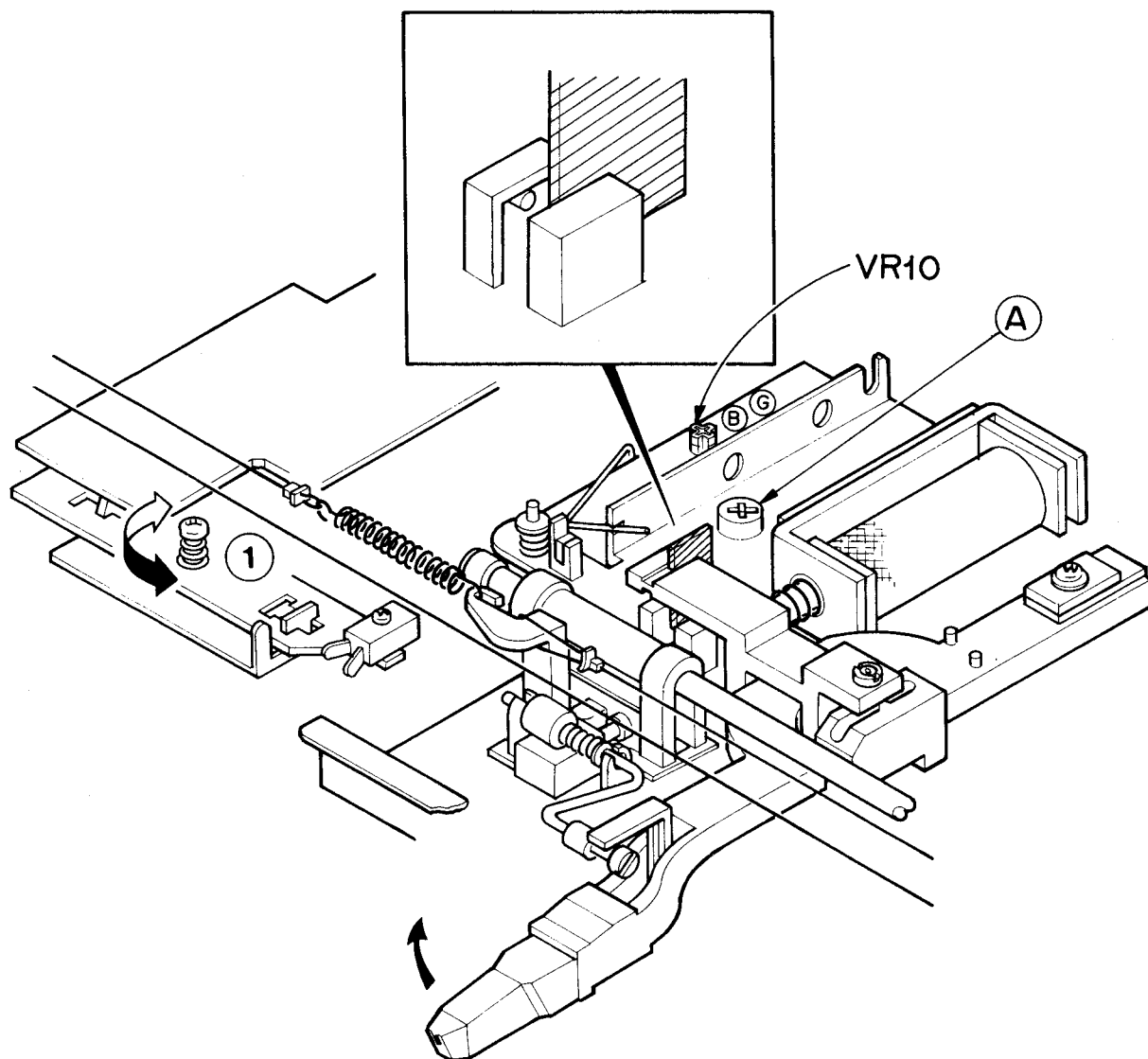
1. Remove 3 hexagon socket head bolts and the dust cover ass'y (refer to exploded view, No. 54).
2. Connect a DC voltmeter to ⑥ and ⑦ terminals in the tonearm ass'y.
3. Swing the tonearm ass'y to the left. (Take care not to damage the stopper.)
4. Turn VR10 in tonearm ass'y so that the voltmeter reads $1.5 \sim 1.8V$. Then, move the tonearm ass'y to the center so that the shutter is inserted halfway between the photo interrupter. If the shutter is in the right position, the voltmeter should read $0.5 \pm 0.3V$ (The position of the shutter can be adjusted with screw ①. When the screw is turned, secure it with adhesive.)

Adjusting auto-in position

1. Turn screw ① to adjust auto-in position. When the screw is turned clockwise, the auto-in position moves to the right. When the screw is turned counterclockwise, the auto-in position moves to the left.
2. When using a test record (W05-0036-00) to adjust the auto-in position, adjust so the auto-in position is within 5 ~ 30 counts of the side ⑥.

Adjusting control PC board (refer to the PC board diagram)

1. Short circuit ⑥ and ⑦ terminals of X25-2080-11 and connect a DC voltmeter between ① and ③ terminals.
2. Adjust VR5 so that the DC voltmeter reads 2.5V.



REGLAGES/ABGLEICH

PACKING

Réglages

Réglages du différentiel de lecture du bras

1. Retirer les 3 vis à 6 pans et l'ensemble du capot protecteur (se reporter au exploded view N° 54).
2. Relier un voltmètre CC aux bornes ⑥ et ⑦ de l'ensemble du bras.
3. Agiter le bras vers la gauche, en prenant soin de ne pas endommager la butée.
4. Agir sur VR10 (sur l'ensemble de lecture) de manière à lire 1,5 ~ 1,8V sur le voltmètre CC. Puis déplacer l'ensemble de lecture vers le centre de manière que l'obturateur soit inséré à mi-chemin d'entre l'interrupteur lumineux. Si l'obturateur se trouve dans la position correcte, le voltmètre doit afficher $0,5 \pm 0,3V$. (On peut régler la position de l'obturateur avec la vis ①. Si l'on agit sur cette vis, la fixer ensuite avec de la colle.)

Réglage du circuit imprimé de commande (se reporter au schéma de celui-ci)

1. Court-circuiter les bornes ⑥ et ⑦ de X25-2080-11 et brancher un voltmètre CC entre les bornes ① et ②.
2. Agir sur VR5 de manière à obtenir 2,5V au voltmètre.

Einstellung

Einstellung der Spurhaltung-Vorspannung des Tonarms

1. Die 3 Innensechskantschrauben und die Abdeckhaube entfernen (siehe Exploded view Nr. 54 auf Seite 6.).
2. Einen Gleichstrom-Spannungsmesser an die Klemmen ⑥ und ⑦ des Tonarms anschließen.
3. Den Tonarm nach links schwingen. (Darauf achten, den Anschlag nicht zu beschädigen.)
4. Den VR10 des Tonarms so einstellen, daß der Voltmeter 1,5 bis 1,8V anzeigt. Dann den Tonarm zu Mitte so bewegen, daß der Verschuß halbwegs eingesetzt zwischen dem Photounterbrecher wird. Wenn der Verschuß sich auf den richtigen Positionen stellt, soll der Gleichstrom-Spannungsmesser $0,5 \pm 0,3V$ anzeigen. (Die Position des Verschlusses kann mit der Schraube ① eingestellt werden. Wenn die Schraube gedreht wird, hinterher mit einem Klebemittel sichern.)

Einstellung der Steuer-Schaltplatte (siehe das Schaltplatten-Diagramm)

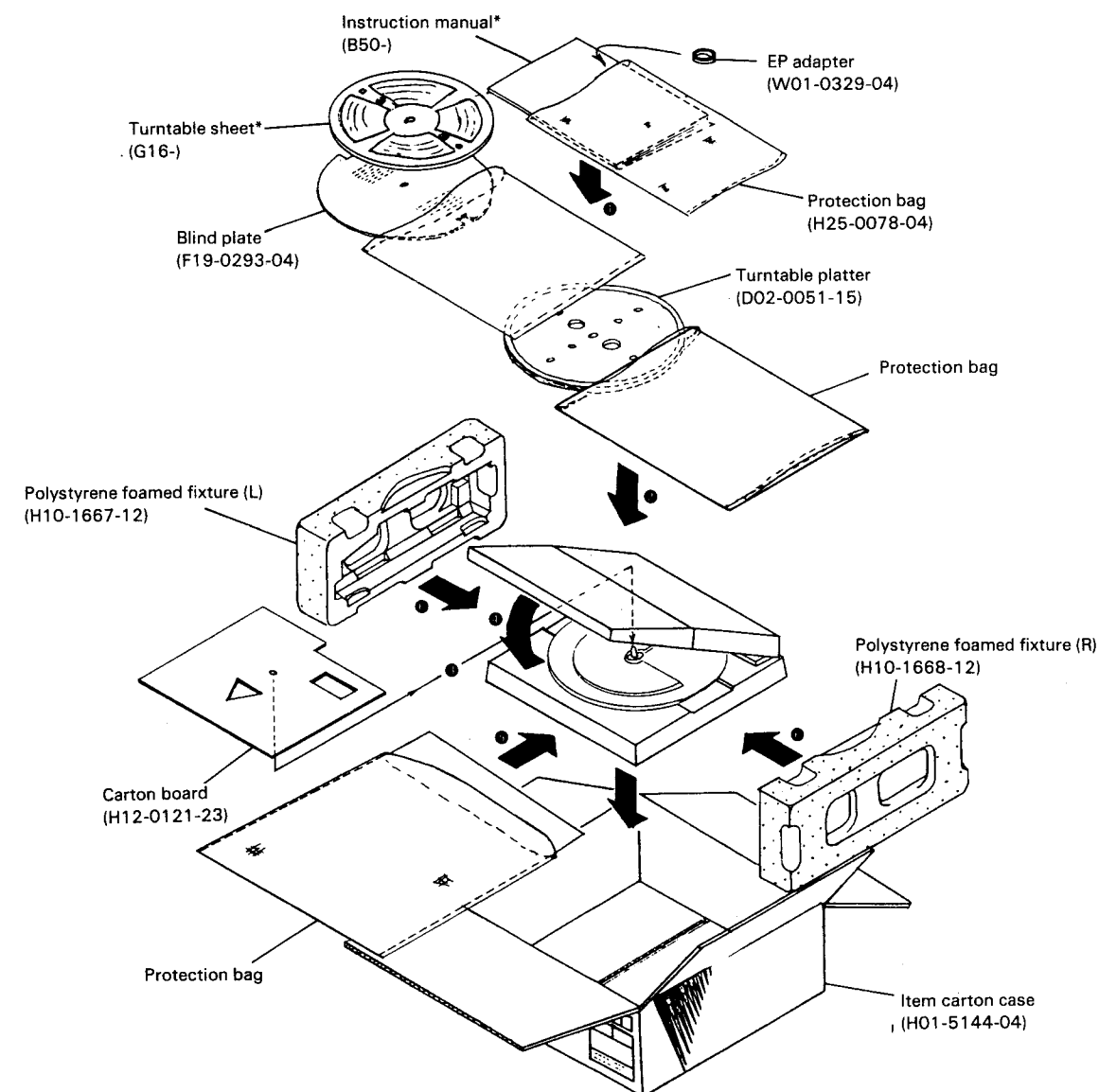
1. Die Klemmen ⑥ und ⑦ von X25-2080-11 kurzschließen und einen Gleichstrom-Spannungsmesser zwischen die Klemmen ① und ② anschließen.
2. VR5 so einstellen, daß der Gleichstrom-Spannungsmesser 2,5V anzeigt.

Réglage de la position de départ pour l'automatisme

1. Pour régler la position de pose du bras, tourner la vis ①. Si l'on tourne dans le sens des aiguilles d'une montre, la position se décale vers la droite; si l'on tourne dans le sens inverse, la position se décale vers la gauche.
2. Si l'on se sert d'un disque test (W05-0036-00) pour ce réglage, déterminer la position pour qu'elle se situe entre le nombre 5 et le nombre 30 de la face ⑥.

Einstellung der Position der automatischen Aufsetzen

1. Die automatische Aufsetzen-Position wird mit Schraube ① eingestellt. Wenn die Schraube in Uhrzeigerrichtung gedreht wird, bewegt sich die automatische Aufsetzen nach rechts. Wenn die Schraube in Gegenuhrzeigerrichtung gedreht wird, bewegt sich die automatische Aufsetzen nach links.
2. Wenn zur Einstellung der automatischen Aufsetzen die Testschallplatte (W05-0036-00) verwendet wird, die automatische Aufsetzen so einstellen, daß sie sich innerhalb von 5 bis 30 Zählimpulsen auf Seite ⑥ befindet.

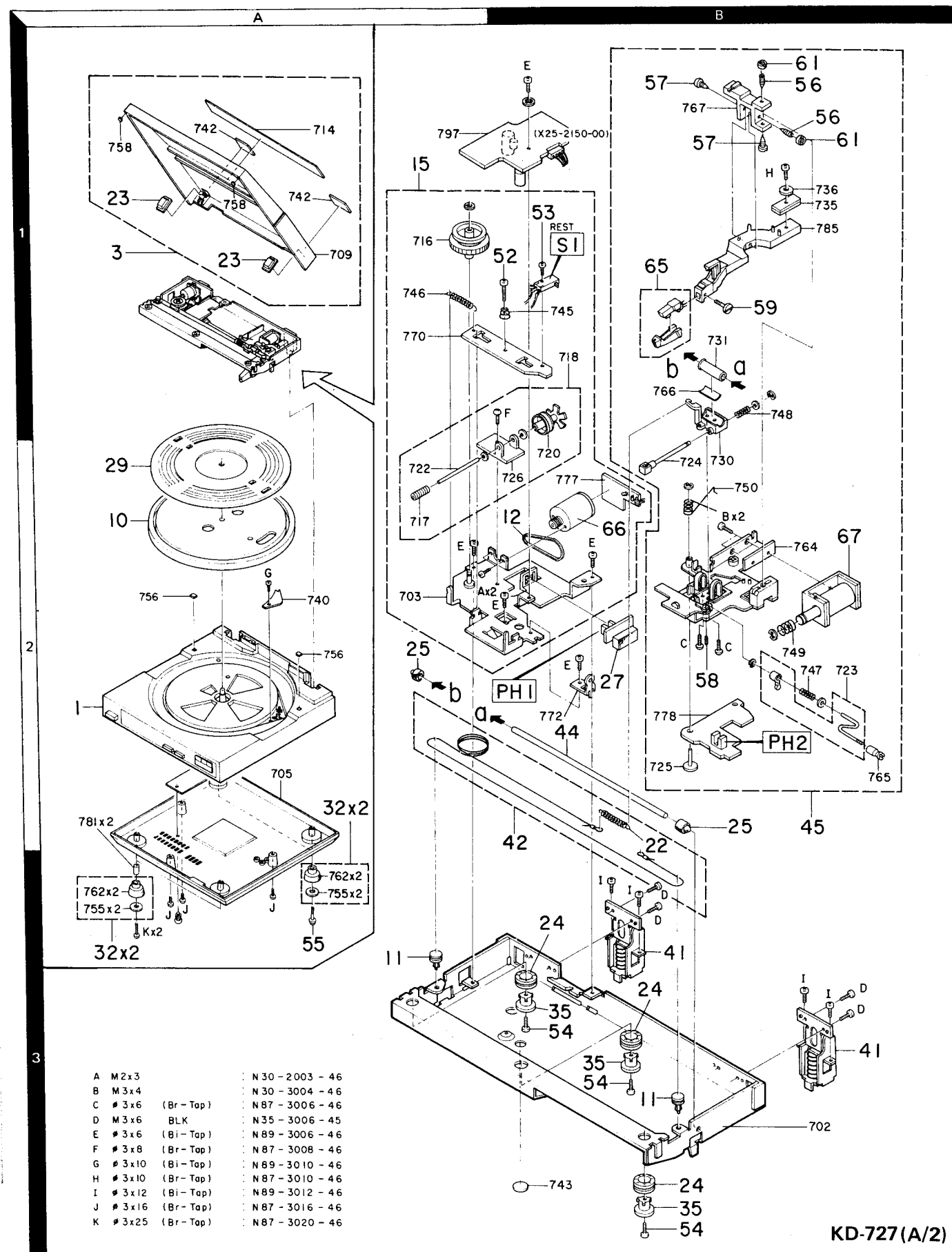


Note: Be sure to stabilize the tonearm with the arm fixture holder during transport.

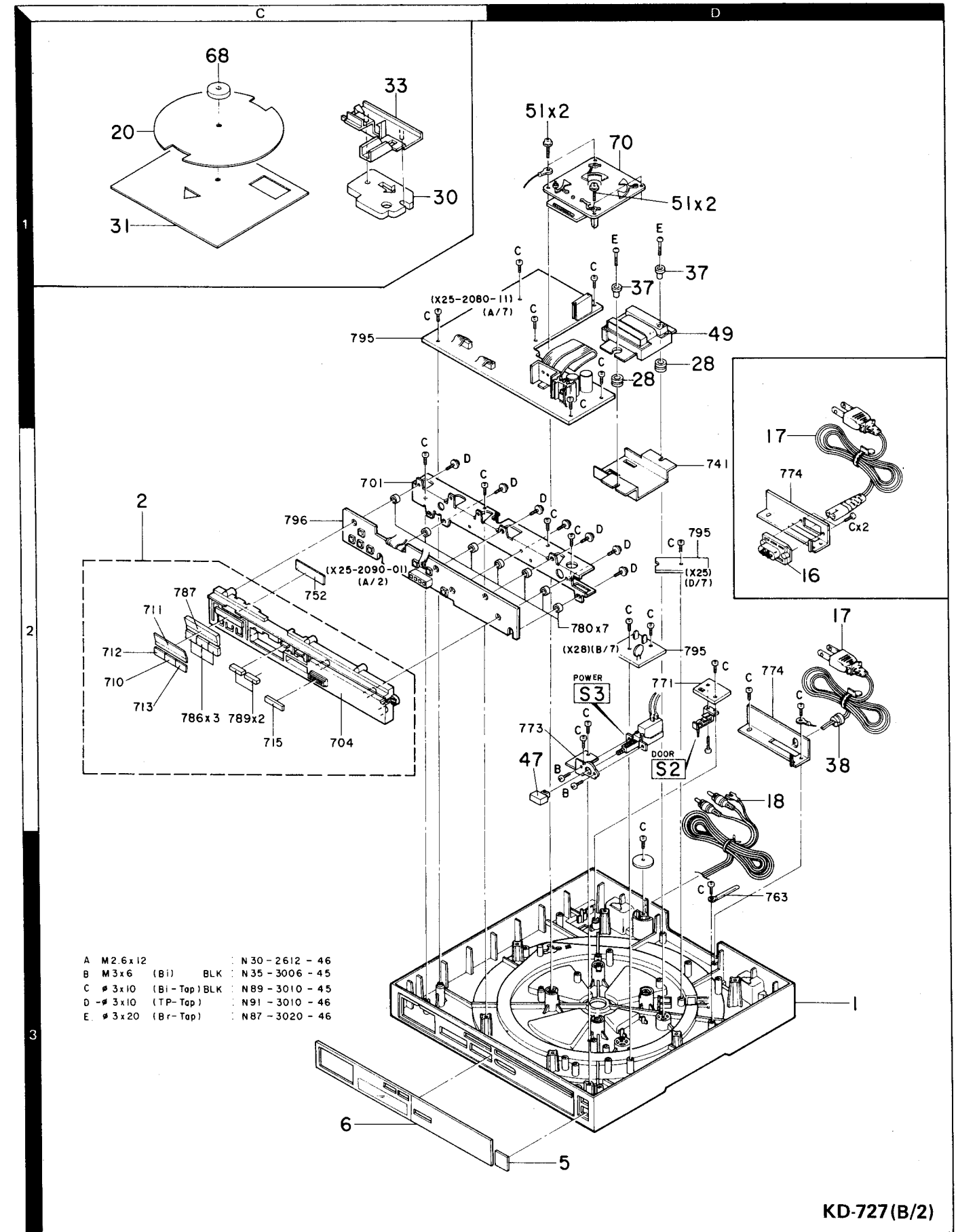
To stabilize the tonearm, do the following:

1. Move the tonearm to the midway position by pushing the ▷ button.
2. Insert the arm fixture holder between the tonearm and the tonearm holder.
3. Manually move it to the furthest right position.

EXPLODED VIEW



EXPLODED VIEW

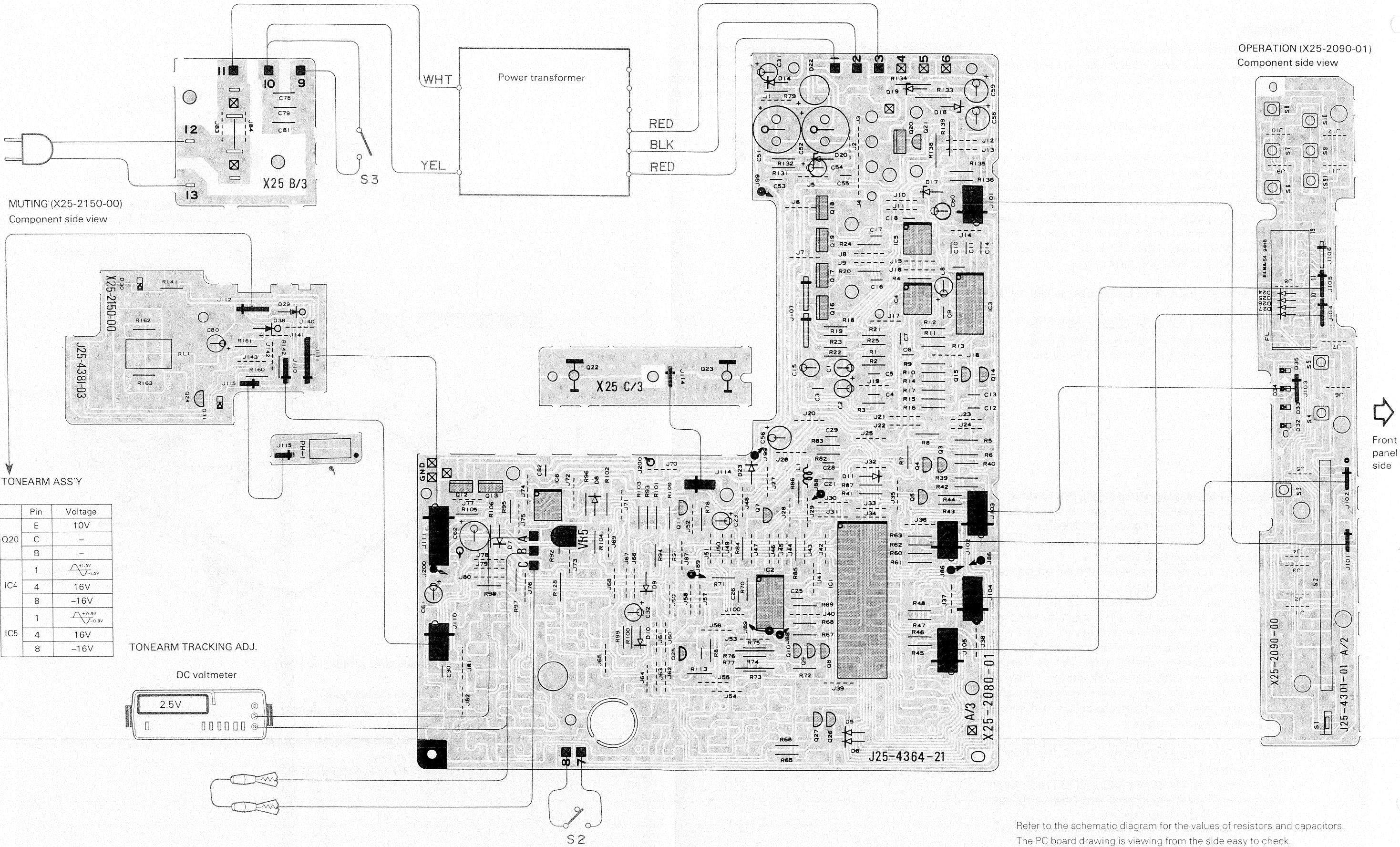


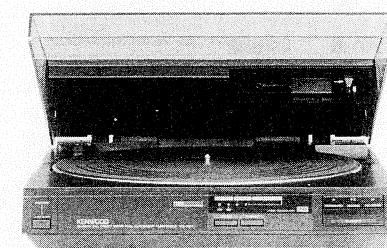
KD-727 KD-727

PC BOARD

CONTROL (X25-2080-11)
Component side view

OPERATION (X25-2090-01)
Component side view





Specifications

Motor and turntable

Drive System.....	Quartz PLL Direct Drive
Motor.....	Coreless & Slotless DC Servo Motor
Turntable Platter.....	30.0 cm (12") Diameter
Speeds.....	2 Speeds, 33-1/3 and 45 rpm.
Wow & Flutter.....	Less than 0.025% (WRMS)
	Less than ±0.05% (DIN)
Rumble.....	DIN weighted better than 74 dB

Tonearm

Type.....	Static-Balanced Linear
-----------	------------------------

Stylus Pressure.....	1.25 grams (Fixed)
----------------------	--------------------

Usable Cartridge.....	T4P Type
-----------------------	----------

Output Capacity.....	170 pF (Headshell to Output)
----------------------	------------------------------

Dynamic Compliance.....	7 × 10 ⁻⁶ cm/dyne (with Furman Cartridge as V-57)
-------------------------	--

Cartridge (except U.S.A.)

Furnished Cartridge.....	V-57 (Low Output Dual Moving Coil Type)
--------------------------	---

Stylus.....	N-57 with 0.6 mil Diamond
-------------	---------------------------

Frequency Response.....	20 Hz to 20,000 Hz
-------------------------	--------------------

Output Voltage.....	0.3 mV (1,000 Hz, 5.0 cm/sec.)
---------------------	--------------------------------

Optimum Tracking Force.....	1.25 ± 0.25 grams
-----------------------------	-------------------

Load Impedance.....	100 ohms
---------------------	----------

Replacement Stylus.....	N-57
-------------------------	------

Supplied accessory.....	45 rpm Adaptor × 1
-------------------------	--------------------

	Auto size selector malfunction prevention sheet × 1
--	---

Miscellaneous

Power Requirements.....	AC 120 V, 60 Hz...U.S.A. & Canada Models
-------------------------	--

	AC 120 V/220-240V, 50/60 Hz...Others
--	--------------------------------------

Power Consumption.....	15 watts
------------------------	----------

Dimensions.....	W 340 mm (13-13/32")
-----------------	----------------------

	H 108 mm (4-11/32")
--	---------------------

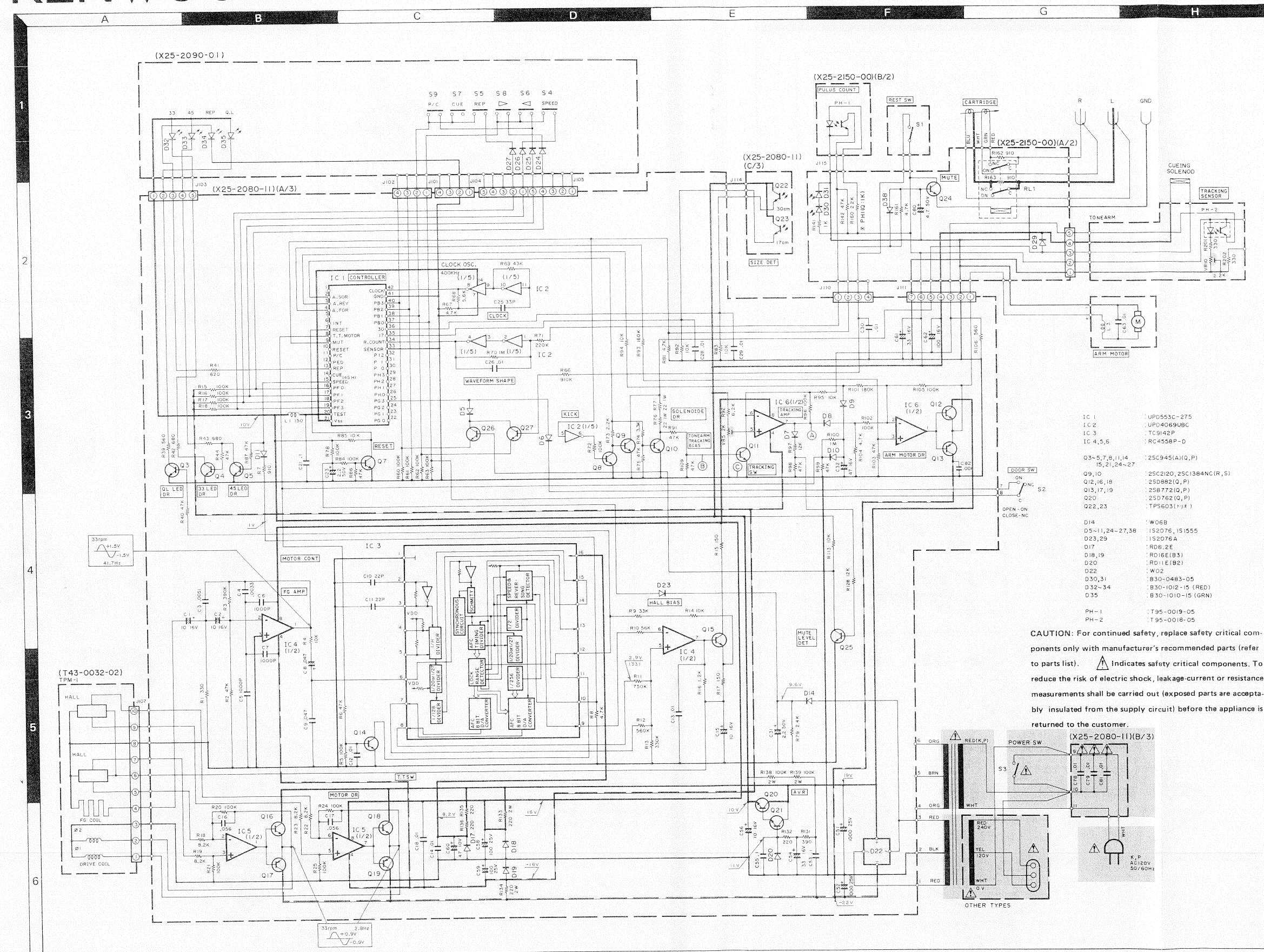
	D 345 mm (13-19/32")
--	----------------------

Weight (Net).....	5.9 kg (13.0 lb)
-------------------	------------------

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2SC1384NC
2SC2120
2SC945(A)

2SB772
2SD882

2SD762

2SC2167

RC4558P-D

UPD4069UBC

TC9142P

UPD553C-275

DC voltages are as measured with a high impedance voltmeter at 33-1/3 r.p.m. mode. Values may vary slightly due to variations between individual instruments or/and units.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis

Teile ohne Parts No. werden nicht geliefert

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KD-727						
1	2A, 3D	*	A02-0175-01	TURNTABLE CABINET		
2	2C	*	A22-0442-03	SUB PANEL ASSY(OPERATION)		
3	1A	*	A53-0558-02	DUST COVER ASSY		
5	3D	*	B03-1361-04	DRESSING PLATE(POWER)		
6	3C	*	B03-1419-02	DRESSING PLATE		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-5209-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B50-5210-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-5211-00	INSTRUCTION MANUAL(G,D,I)	E	
-		*	B50-5212-00	INSTRUCTION MANUAL(SPANISH)	M	
-			B58-0223-04	CAUTION CARD(PRESET,120V)	U	
-			B58-0269-04	CAUTION CARD	P	
-		*	B58-0314-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD(PRESET220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
C63			CK45FF1H103Z	CERAMIC 0.01UF Z		
10	2A		D02-0051-15	TURNTABLE PLATTER		
11	3A, 3B		D15-0175-15	PULLEY ASSY(DIAL CORD STRING)		
12	2B		D16-0082-04	BELT (MOTOR,PULLEY)		
15	1A	*	D40-0308-03	MECHANISM ASSY(T.ARM TRANSPORT		
△	16		E03-0102-15	AC INLET	UMUEX	
△	16		E03-0102-15	AC INLET	E	
△	17		E30-0181-05	AC POWER CORD	P	
△	17		E30-1305-15	AC POWER CORD (INLET)	UMUE	
△	17		E30-1329-05	AC POWER CORD (INLET)	E	
△	17		E30-1342-05	AC POWER CORD (INLET)	X	
△	17		E30-1350-05	AC POWER CORD	K	
△	18		E30-1352-25	AUDIO CORD		
20	1C		F19-0294-04	BLIND PLATE(TURNTABLE PLATTER)		
22	2B		G01-1371-04	EXTENSION SPRING(T.ARM STRING)		
23	1A		G11-1032-14	CUSHION (A53-0558-02ASSY)		
24	3B		G11-1033-14	CUSHION (UNDER DUST COVER)		
25	2A, 2B		G11-1034-04	CUSHION (ENDS OF TONEARM RAIL)		
27	2B		G13-0142-04	CUSHION		
28	1D		G13-0414-04	CUSHION (POWER TRANSFORMER)		
29	2A		G16-0067-02	TURNTABLE SHEET	PUMUE	
29	2A		G16-0067-02	TURNTABLE SHEET	XE	
29	2A		G16-0068-02	TURNTABLE SHEET	K	
30	1C		H10-1681-14	POLYSTYRENE FOAMED FIXTURE		
31	1C		H12-0121-23	CARTON BOARD		
-		*	H01-5144-04	ITEM CARTON CASE		
-			H10-1667-12	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-1668-12	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0148-04	PROTECTION BAG (110X230XD.07)	M	

E: Scandinavia & Europe

H: Audio Club K: USA

P: Canada

△ indicates safety critical components

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

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-			H25-0210-24	PROTECTION BAG	M	
-			H40-0005-04	RUST PREVENTING PAPER(380X250)		
32	2A, 3A		J02-0151-14	INSULATOR ASSY		
33	1C	*	J19-2126-03	HOLDER (TONEARM)		
35	3B		J31-0205-14	COLLAR (TONEARM MECH MOUNT)		
37	1D		J31-0416-14	COLLAR (POWER TRANSFORMER)		
△ 38	2D		J41-0034-05	POWER CORD BUSHING	KP	
41	3B		J50-0101-05	HINGE		
42	2B		J60-0005-14	STRING ASSY		
44	2B		J90-0119-04	RAIL (TONEARM)		
45	2B	*	J91-0224-25	TONEARM ASSY	PUMUE	
45	2B	*	J91-0224-25	TONEARM ASSY	XE	
45	2B	*	J91-0242-05	TONEARM ASSY	K	
-			J61-0045-15	WIRE BAND		
-			J61-0307-05	WIRE BAND		
47	2D		K27-1207-04	KNOR(BUTTON) POWER		
△ 49	1D	*	L01-3101-05	POWER TRANSFORMER	KP	
△ 49	1D	*	L01-3104-05	POWER TRANSFORMER	UMUE	
△ 49	1D	*	L01-3104-05	POWER TRANSFORMER	E	
L3			L40-1511-14	SMALL FIXED INDUCTOR(150UH,K)		
51	1D		N09-0849-05	TAPTITE SCREW (M3X15,+TP)		
52	1B		N09-0966-04	MACHINE SCREW (M3X14,+PAN)		
53	1B		N09-0993-04	MACHINE SCREW (M1.7X6,PAN)		
54	3B		N09-1222-05	HEXAGON SOCKET HEAD BOLT(M3XB)		
55	3A		N09-1261-15	STEPPED SCREW (Ø3X31)		
56	1B		N09-1267-08	SET SCREW (TONEARM)		
57	1B		N09-1278-08	SET SCREW (TONEARM)		
58	2B		N09-1291-05	SET SCREW (M3X6,-)		
59	1B	*	N09-1343-08	MACHINE SCREW(CARTRIDGE)		
61	1B		N14-0136-08	CIRCULAR NUT (N09-1267-08FIX)		
VR10			R12-1063-05	TRIMMING POT(2.2K) TRACK ERROR		
S1	1B		S50-1316-05	MICRO SWITCH (REST POSITION)		
S2	2D		S46-2310-05	LEAF SWITCH (DOOR)		
△ S3	2D		S40-1076-05	PUSH SWITCH (POWER TYPE)		
65	1B		T21-0105-05	PICKUP CARTRIDGE	PUMUE	
65	1B	*	T21-0105-05	PICKUP CARTRIDGE	XE	
65	1B	*	T21-0115-05	PICKUP CARTRIDGE	K	
66	2B		T42-0039-05	MOTOR ASSY		
67	2B		T94-0030-08	MAGNETIC PLUNGER		
PH2	2B		T95-0018-05	OPTN ISOLATOR (TRACKING)		
68	1C		W01-0329-04	EP ADAPTER		
70	1D		X92-1010-00	MOTOR ASSY (TPM-1A)		
ELECTRIC (X25-2080-11)						
C1 +2		*	CE04FW1C100M	ELECTRO 10UF 16WV		
C3		*	CF92FV1H512J	MF 5100PF J		
C4		*	CF92FV1H332J	MF 3300PF J		
C5 -7		*	CK45FB1H102K	CERAMIC 0.001UF K		
C8		*	CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C9		*	CK45FF1H473Z	CERAMIC 0.047UF Z		
C10 +11		*	CC45FSL1H220J	CERAMIC 22PF J		

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

△ indicates safety critical components

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C12 -14 C15 C16 ,17 C18 C21			CK45FF1H103Z CE04FW1C100M CF92FV1H563J CK45FF1H103Z C91-0700-05	CERAMIC 0.01UF Z ELECTR0 10UF 16WV MF 0.056UF J CERAMIC 0.01UF Z CERAMIC 0.1UF J		
C23 C25 C26 C28 -30 C31			CE04FW1H2R2M CC45FSL1H330J CK45FF1H103Z CK45FF1H103Z CE04FW1H2R2M	ELECTR0 2.2UF 50WV CERAMIC 33PF J CERAMIC 0.01UF Z CERAMIC 0.01UF Z ELECTR0 2.2UF 50WV		
C32 C51 ,52 C53 C54 C55			CE04FW1C470M CE04W1E102M C91-0700-05 CE04FW1C330M C91-0700-05	ELECTR0 47UF 16WV ELECTR0 1000UF 25WV CERAMIC 0.1UF J ELECTR0 33UF 16WV CERAMIC 0.1UF J		
C56 C58 ,59 C60 C61 C62			CE04FW1C100M CE04FW1E101M CE04FW1A470M CE04FW1C330M CE04FW1C101M	ELECTR0 10UF 16WV ELECTR0 100UF 25WV ELECTR0 47UF 10WV ELECTR0 33UF 16WV ELECTR0 100UF 16WV		
△ C78 ,79 △ C78 ,79 △ C78 ,79 △ C81 △ C81			C91-0023-05 C91-0023-05 C91-0647-05 C91-0023-05 C91-0023-05	CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V CERAMIC 0.01UF P CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V	UMUEX E KP UMUEX E	
△ C81 C82			C91-0647-05 CK45B1H102K	CERAMIC 0.01UF P CERAMIC 0.001UF K	KP	
L1 X1			L40-1511-14 L77-0580-05	SMALL FIXED INDUCTOR (150UH,K) CRYSTAL RESONATOR (4.6MHZ)		
R76 ,77 R133,134 R138,139 VR5		*	RS14GB3A220J RS14KB3D221J RS14KB3D101J R12-1313-05	FL-PROOF RS 22 J 1W FL-PROOF RS 220 J 2W FL-PROOF RS 100 J 2W TRIMMING POT(2K) TRACK BIAS		
D5 -11 D5 -11 D14 D17 D18 ,19			1S1555 1S2076 W06B RDB.2E(B2) RD16E(B3)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D20 D22 D23 IC1 IC2			RD11E(B2) W02 1S2076A UPD553C-275 UPD4069UBC	ZENER DIODE DIODE DIODE IC MICROPROCESSOR IC INVERTER		
IC3 IC4 -6 Q3 -5 Q7 ,8 Q9 ,10			TC9142P RC4558P-D 2SC945(A)(Q,P) 2SC945(A)(Q,P) 2SC1384NC(R,S)	IC MOTOR CONTROL IC OP AMP TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q11 Q12 Q13 Q14 ,15			2SC2120 2SC945(A)(Q,P) 2SD882(Q,P) 2SB772(Q,P) 2SC945(A)(Q,P)	TRANSISTOR 0,Y TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

△ indicates safety critical components

S: South Africa T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q16			2SD882(Q,P)	TRANSISTOR		
Q17			2SB772(Q,P)	TRANSISTOR		
Q18			2SD882(Q,P)	TRANSISTOR		
Q19			2SB772(Q,P)	TRANSISTOR		
Q20			2SC2167(Q,Y)	TRANSISTOR		
Q20			2SD762(Q,P)	TRANSISTOR		
Q21			2SC945(A)(Q,P)	TRANSISTOR		
Q22 ,23			TPS605	PHOTO TR (RECORD SIZE DETECT)		
Q25 -27			2SC945(A)(Q,P)	TRANSISTOR		
OPERATION (X25-2090-01)						
D32 -34			B30-1012-05	LED(SLP-981C-50) 33.45, REPEAT		
D35		*	B30-1010-05	LED(SLP-281F-50U) QUARTZ LOCK		
S4 -9			S40-1068-05	PUSH SWITCH(SP, REP, FOR, CUE, REV		
D24 -27			1S2076	DIODE		
SUB-CIRCUIT (X25-2150-00)						
D30 ,31			B30-0483-05	LED(SLP-170B) RECORD SIZE DET		
C80			CE04W1E4R7M	ELECTRON 4.7UF 25WV		
PL1		*	SS1-2068-05	MAGNETIC RELAY		
PH1			T95-0019-05	OPTO ISOLATOR (PULSE COUNT)		
D29			1S2076A	DIODE		
D38			1S1555	DIODE		
D38			1S2076	DIODE		
D24			2SC945(A)(Q,P)	TRANSISTOR		
MOTOR ASSY (X92-1010-00)						
-			D90-0001-04	STEEL BALL		
-		*	T95-0015-15	HALL ELEMENT (H-300B)		

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 indicates safety critical components

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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